

# di-(1-Methyl-2-methoxybutyl)sebacate

<b>Inchi:</b>	InChI=1S/C20H38O6/c1-15(23-5)17(3)25-19(21)13-11-9-7-8-10-12-14-20(22)26-18(4)16
<b>InchiKey:</b>	NCGXKOTZQIIEHO-UHFFFAOYSA-N
<b>Formula:</b>	C20H38O6
<b>SMILES:</b>	COC(C)C(C)OC(=O)CCCCCCCCC(=O)OC(C)C(C)OC
<b>Mol. weight [g/mol]:</b>	374.51

## Physical Properties

Property code	Value	Unit	Source
gf	-570.08	kJ/mol	Joback Method
hf	-1231.29	kJ/mol	Joback Method
hfus	41.41	kJ/mol	Joback Method
hvap	81.69	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.040		Crippen Method
mcvol	319.280	ml/mol	McGowan Method
pc	1076.39	kPa	Joback Method
rinpol	2188.00		NIST Webbook
tb	852.66	K	Joback Method
tc	1045.73	K	Joback Method
tf	443.94	K	Joback Method
vc	1.216	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1034.16	J/molxK	852.66	Joback Method
cpg	1110.51	J/molxK	1013.56	Joback Method
cpg	1097.85	J/molxK	981.38	Joback Method
cpg	1083.89	J/molxK	949.20	Joback Method
cpg	1068.62	J/molxK	917.02	Joback Method
cpg	1052.04	J/molxK	884.84	Joback Method
cpg	1121.85	J/molxK	1045.73	Joback Method
dvisc	0.0000209	Paxs	852.66	Joback Method
dvisc	0.0000293	Paxs	784.54	Joback Method

dvisc	0.0000438	Paxs	716.42	Joback Method
dvisc	0.0000713	Paxs	648.30	Joback Method
dvisc	0.0001302	Paxs	580.18	Joback Method
dvisc	0.0002792	Paxs	512.06	Joback Method
dvisc	0.0007563	Paxs	443.94	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R541874&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541874&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/31-596-6/di-1-Methyl-2-methoxybutyl-sebacate.pdf>

Generated by Cheméo on 2024-04-30 11:47:11.227684082 +0000 UTC m=+16766880.148261401.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.